

Fig. 1

Sketch of Droplet Formation & Ejection from Ink-Jet Printing Device

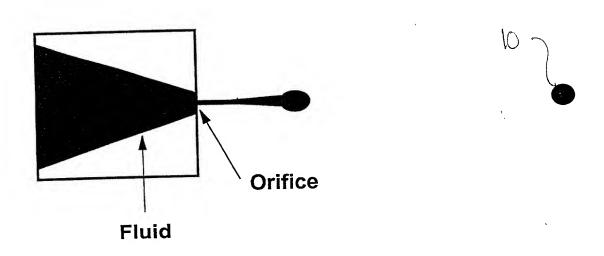


FIG. 2

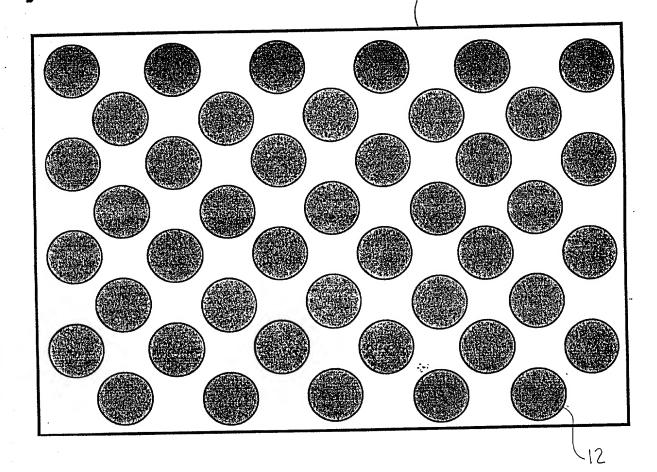
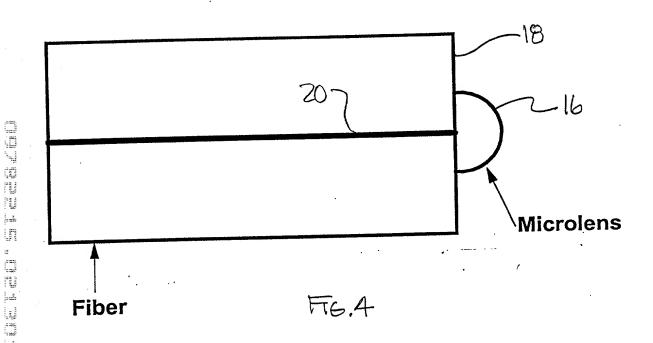
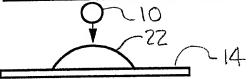


FIG. 3

Microlens Printed on Tip of Single-Mode Fiber to Increase Numerical Aperture

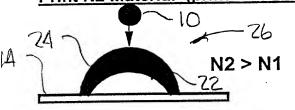


Print N1 Material (print head #1)

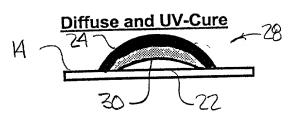


F16.5

Print N2 Material (print head #2)

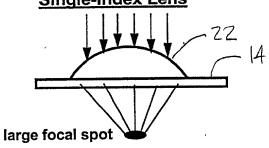


FG. 6



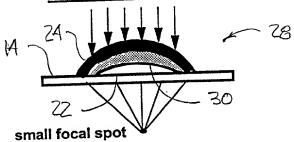
F16. 7

Single-Index Lens

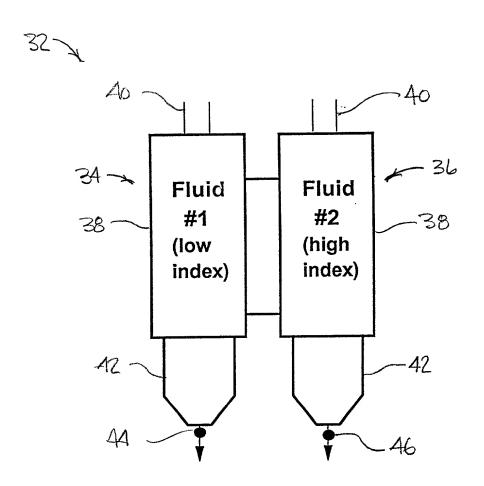


F16.8

Gradient-Index Lens



F16. 9



F16.10

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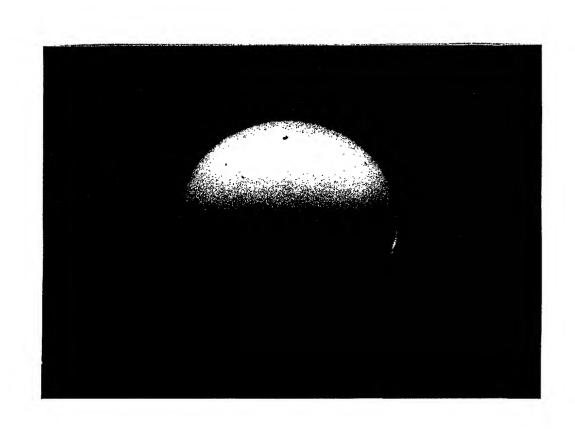


FIG. 11

LENS MATERIALS ISSUES

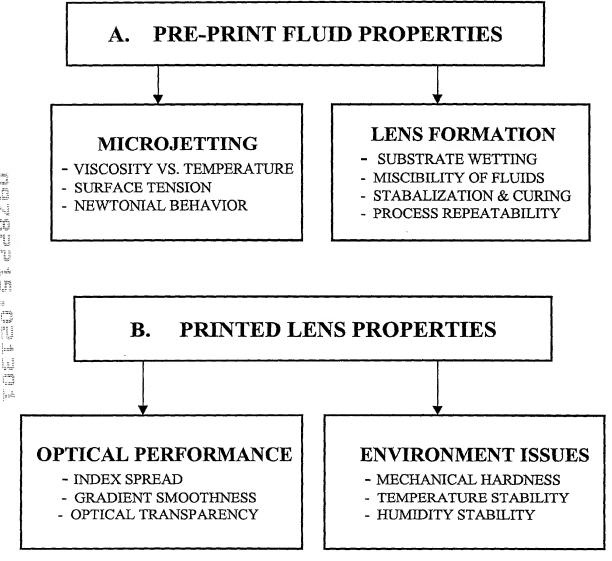


FIG. 12